

CLAIMS

1. A handheld implement, in particular a portable chainsaw (100), with a handle housing part (12) that contains at least one carrying handle (10), and with at least one motor housing part (16) that carries a drive unit (14) and is connected to the handle housing part (12) by means of an antivibration system that consists of at least one vibration-reducing element (18), characterized in that the at least one vibration-reducing element (18) is realized such that it can be adjusted with the aid of a tool or without requiring a tool.
2. The implement according to Claim 1, characterized in that the at least one vibration-reducing element (18) consists of a spring element (20).
3. The implement according to Claim 1, characterized in that the at least one vibration-reducing element (18) consists of a damping element (22).
4. The implement according to one of Claims 1-3, characterized in that the at least one vibration-reducing element (18) can be adjusted by defining a spring constant (26) and/or a damping constant (32).
5. The implement according to one of Claims 1, 2 and 4, characterized in that the spring constant (26) of the spring element (20) can be varied in dependence on the thickness (28) of the spring wire, the average winding diameter (30) and the spring length (34).
6. The implement according to Claim 5, characterized in that the spring element (20) contains a rigid body (36) that can be screwed into or onto the spring element in order to realize a static adjustment of the spring length (34).
7. The implement according to Claim 6, characterized in that the rigid body (36) consists of an adjusting screw (44).

8. The implement according to Claim 7, characterized in that the spring element (20) contains a flexible body (38) that can be screwed into or onto the spring element in order to realize a dynamic adjustment of the spring length (34).
9. The implement according to Claim 8, characterized in that the flexible body (38) consists of a spring element (40).
10. A chainsaw according to Claim 8, characterized in that the flexible body (38) consists of a rubber part (42).
11. The implement according to Claim 5, characterized in that a contact surface (46) is arranged inside or outside the spring element (20) in order to realize a progressive adjustment of the spring/damping characteristic (34) of the spring element (20).
12. A chainsaw according to Claim 5, characterized in that the spring length (34) of the spring element (20) is adjusted in the form of a prestress of at least two opposing spring elements (20), namely such that an equilibrium of forces is achieved.
13. The implement according to one of Claims 6-12, characterized in that that a static adjustment, a dynamic adjustment, a progressive adjustment and a prestress adjustment can be combined with one another.
14. The implement according to Claim 5, characterized in that the average winding diameter (30) of the spring element (20) can be defined.
15. The implement according to Claim 5, characterized in that the spring wire thickness (28) of the spring element (20) can be defined.
16. The implement according to one of Claims 1, 3 and 4, characterized in that the damping elements (22) for adjusting the damping constant (32) are realized in the form of solid dampers.

17. The implement according to one of Claims 1, 3 and 4, characterized in that the damping elements (22) for adjusting the damping constant (32) are realized in the form of hollow dampers.
18. The implement according to Claim 16 or 17, characterized in that the damping elements (22) have an axial prestress.
19. The implement according to Claim 17, characterized in that a damping element (22) that is realized in the form of a hollow damper contains a rotatable eccentric ring (48) that is arranged in the hollow damper and serves for adjusting the damping constant (32).
20. The implement according to Claim 17, characterized in that the hollow damper is filled with gas.
21. The implement according to Claim 17, characterized in that the hollow damper is filled with a fluid.
22. The implement according to one of Claims 1, 2 and 4-15, characterized in that the spring element (20) consists of steel.
23. The implement according to one of Claims 1, 3 and 16-21, characterized in that the damping element (22) consists of plastic.
24. The implement according to one of Claims 1, 3 and 16-21, characterized in that the damping element (22) consists of rubber or a composite material.
25. The implement according to one of the preceding claims, characterized in that the adjustment of the damping element is realized by varying the frictional force.